REMARKS

This paper is responsive to an Office Action dated June 30, 2004. Prior to this response claims 1-19 were pending. Claims 1-19 remain pending.

In Section 3 of the Office Action claims 11, 14, and 16 have been rejected under 35 U.S.C. 112, second paragraph, as being indefinite. Specifically, the Office Action states that there is no support in the specification for the limitation of "in response to curing the adhesive" spacer channels. This rejection is traversed as follows.

The first paragraph of 35 U.S.C. 112 states that "(t)he specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and set forth the best mode contemplated by the inventor for carrying out his invention."

Claims 1, 4, 11, and 14 do not recite an adhesive compound invention, or a novel adhesive curing methodology. The invention does not recite a need for the use of a non-conventional adhesive. The invention relies upon a person skilled in the art to use a conventional adhesive in the manner proscribed by the adhesive's label, or in a manner that is well known in the art. Alternately stated, it would not take a skilled practitioner undue experimentation to use the invention if they followed the instructions that accompany a conventional adhesive, to cure

that adhesive. Said yet another way, the claimed invention does not change the conventional parameters associated with using an adhesive.

More specifically, claims 1, 4, 11, and 14 describe the steps of: curing the adhesive; and, in response to curing the adhesive, attaching the substrate. Support for this process can be found in the specification at page 13, lines 7-9, where it states, "Step 1008 cures the adhesive to attach the first flexible substrate to the first support substrate." In accordance with MPEP 2163.06, the Applicant has shown support in the specification for the (previously) amended claims. As stated in MPEP 2163 II A, the Examiner now bears the burden of explaining why a person skilled in the art would not recognize, in the disclosure, a description of the invention defined by the claims. Since the specification supports the claims, and the Examiner has failed to provide evidence to show why a person skilled in the art would not recognize the invention, the Applicant respectfully requests that the rejection be removed.

In Section 10 of the Office Action claims 1, 3, 8, and 9 have been rejected under 35 U.S.C. 102(b) as being anticipated by Ge et al. ("Ge", US 5,892,558). The Office Action states that Ge discloses a rigid support substrate 34 made from glass or plastic, trenches 38/102 formed in substrate 34, a flexible substrate 22, and adhesive injected into the trenches. This rejection is traversed as follows.

"A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference." Verdegaal Bros. v. Union Oil of California, 814 F.2d 628, 631, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987).

The Office Acton has repeated verbatim the rejection made in the Office Action dated March 17, 2004, even though the language of claim 1 was amended in the Office Action response dated April 4, 2004. Even if the initially recited step of "curing the adhesive to attach the ... substrate" did describe a function, the claim has already been amended to recite independent steps of "curing" and "attaching". The Applicant respectfully requests that the Office Action address the claims as written.

The Examiner cites In re Casey and In re Otto to support the position that the recitation of an intended use of the claimed invention must result in a structural difference. These cases are often used to support the position that the material worked upon by a device does not limit apparatus claims, see MPEP 2115. In re Casey involved an apparatus claim, and the court held that the manner in which the machine was used was not germane to the issue of patentability. In re Otto involved both an apparatus and a method claim. The method claim purported to be a method for making the apparatus. However, the steps of the method claim described the manner in which the apparatus was to be used. The court found that these steps of using the device were not to be construed as a limitation in a claim for making the device. Copies of these cases are enclosed as Attachment A and B.

Neither of these cases appears to be especially relevant to an analysis of claim 1. The preamble of claim 1 describes "(a) method for mounting a flexible substrate..." "(A)ttaching the flexible substrate" is the final step in a method for mounting. In this case, the use of the support substrate is a relevant limitation, as the use is a step in the mounting process. That is, "attaching" is clearly the final step in a mounting process. Alternately stated, the method of claim 1 does not recite the making of a support substrate as the end product apparatus. Rather, the end product is a mounted flexible substrate.

Ge describes a transparent faceplate 22 (col. 2, ln. 19-20) and a transparent substrate 34 with defined grooves 38 (col. 4, ln. 38-41). The groove 38 can be partially filled with adhesive 36 to secure a wire 11 (col. 6, ln. 48-50, see Figs. 5A-5C).

Ge does not describe the claimed invention steps of "filling a trench with adhesive", "curing the adhesive", or "in response to curing the adhesive, attaching the ... substrate". Since Ge does not describe all the limitations of the invention of claim 1, he cannot anticipate. Claims 3, 8, and 9, dependent from claim 1 enjoy the same distinctions from the cited prior art, and the Applicant respectfully requests that the rejection be removed.

In Section 11 of the Office Action claims 1, 2, 5, and 6 have been rejected under 35 U.S.C. 102(b) as being anticipated by Matsushita et al. ("Matsushita", US 5,459,335). The Office Action states that Matsushita describes a rigid substrate 5 with trenches, and a process of filling the trenches with adhesive 4, to attach the rigid substrate to a flexible substrate. This rejection is traversed as follows.

Matsushita describes a process that forms an insulating oxide layer 2 overlying a Si substrate 2. A thin-film semiconductor circuit 1 is then formed on oxide layer 2. The thin-film circuit 1 is covered with an adhesive 4 and a support substrate 5 is attached to the adhesivecovered circuit layer 1 (col. 3, ln. 22-35). Matsushita does not describe a process of forming trenches and filling the trenches with adhesive. More particularly, Matsushita does not describe a step of forming trenches in rigid support substrate 5. The Office Action, on page 9, second-last paragraph, acknowledges that Matsushita does not describe the step of forming a support substrate with trenches.

In Section 4 of the Office Action, the Examiner states that, "the Examiner would like to reiterate that Matsushita does not disclose the step of forming a support substrate with trench as recited in claim 10." Since the Office Action acknowledges that Matsushita does not describe the more general case of "forming a support substrate with trenches", Matsushita cannot possible describe the more limiting case of "forming a rigid support substrate with trenches".

Since Matsushita does not describe the claimed invention steps of "forming a first rigid substrate with trenches" (as acknowledged in the Office Action), or "injecting adhesive into the trenches...", he does not describe all the limitations of the invention of claim 1. Claims 2, 5, and 6, dependent from claim 1 enjoy the same distinctions from the cited prior art, and the Applicant requests that the rejection be removed.

In Section 13 of the Office Action claims 11, 12, 15, 16, and 18 have been rejected under 35 U.S.C. 103(a) as unpatentable with respect to Matsushita in view of Sundahl et al. ("Sundahl", US Pub 2002/0084536). The Office Action acknowledges that Matsushita does not disclose a pattern of spacers, but states that Sundahl shows a performed pattern of spacers 602. The Office Action states that it would have been obvious to one skilled in the art at the time of the invention to incorporate Sundahl's teaching with Matsushita "since that would maintain mechanical integrity during the process of attaching the lower and upper panels as taught by Sundahl." This rejection is traversed as follows.

An invention is unpatentable if the differences between it and the prior art would have been obvious at the time of the invention. As stated in MPEP § 2143, there are three requirements to establish a prima facie case of obviousness.

First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings. Second, there must be a reasonable expectation of success. Finally, the prior art reference (or references when combined) must teach or suggest all the claim limitations. The teaching or suggestion to make the claimed combination and reasonable expectation of success must both be found in the prior art and not based on applicant's disclosure. In re Vaeck 947 F.2d 488, 20 USPQ2d, 1438 (Fed. Cir. 1991).

First, before an obviousness analysis is considered, the Office Action also states that "(a)s for the purpose of curing the said adhesive (to attach the first flexible substrate to the first rigid support substrate) recited in the claims, it refers to a function." Again, even if the aboverecited language did refer to a function, the Office Action is making reference to an obsolete version of the claims. The claims were amended in the response of April 4, 2004 to recite the steps of: "curing the adhesive", and, "...attaching the first flexible substrate..." As noted above in response to Section 10 of the Office Action, "attaching" is a valid limitation in a mounting process.

Generally, Matsushita describes an LCD invention that addresses the problem of removing a thin film circuit layer/oxide layer stack from a single-crystal Si substrate, for attachment to a support substrate (col. 1, ln. 53-61).

Sundahl describes a process for making electrical connections between circuit boards. Conductive spacers 602 are formed on bond pads 504, see Fig. 6. The conductive spacers can be formed by a selective electroplating process, solder printing, welding, or by using a conductive adhesive (0042-0043). "Conductive material 702 is placed in proximity to

areas where each of the spacers 602 will contact complementary sets of bond pads", see Fig. 7 (0044). The conductive material 702 is used (as an adhesive) to form a mechanical bond between panels, see Fig. 9 (0048-0049).

With respect to the first prima facie requirement to support a case of obviousness, there appears to be no motivation to look to the Sundahl reference for a modification to Matsushita. As mentioned above, Matsushita is attempting to solve the problem of detaching thin-film circuits from the substrates on which they are fabricated, for attachment to a support substrate. Sundahl addresses the issue of making a mechanically secure electrical interface between circuit boards. Practically, Sundahl's conductive spacers cannot be incorporated into Matsushita's process, as Matsushita is not making electrical interconnections between semiconductor circuit 1 and support substrate 5. Matsushita's support substrate 5 is glass or quartz and contains no electrical circuitry that can be connected (col. 3, ln. 29-40).

Further, the Office Action has not demonstrated that the modification of the cited the prior art references point to the reasonable expectation of success in the present invention, which is the second requirement of the obviousness analysis. Even if Sundahl could be combined with Matsushita, there is no expectation from the combination that a flexible substrate can be bonded to a rigid substrate by placing spacers between the substrates, and filling the channels formed by the spacers with epoxy. Neither reference describes a process that fills a channel, formed between spacers, with adhesive.

With respect to the third prima facie obviousness requirement, the references even when combined do not disclose all the elements of the claimed invention. Neither Matsushita nor Sundahl teach that adhesive can be injected in spacer channels. Matsushita does not disclose spacers. Sundahl explicitly states that his conductive adhesive is formed in the proximity of the spacers (as noted above, see Figs. 7 and 8), as opposed to in the channels between spacers. This is because the (conductive) adhesive, in combination with the conductive spacer, forms part of the electrical interconnect. Since the combination of Matsushita and Sundahl neither explicitly describes nor suggests a modification that makes claims 11 or 16 obvious, the Applicant requests that the rejection be removed. Claims 12, 15, and 18 dependent from claim 11, enjoy the same distinctions from the cited prior art.

In Section 14 of the Office Action claim 13 is rejected under 35 U.S.C. 103(a) as unpatentable over Matsushita in view of Sundahl, further in view of Tsubota et al. ("Tsubota"; US 5,629,787). The Office Action acknowledges that Matsushita and Sundahl do not describe the formation of TFTs and a color filter layer, but states that it would have been obvious to combine the TFTs and color filter disclosed by Tsubota, with Matsushita and Sundahl, to make claim 13 obvious. This rejection is traversed as follows.

As noted above, Matsushita addresses the problem of removing a thin film circuit layer/oxide layer stack from a single-crystal Si substrate, for attachment to a support substrate. Sundahl addresses the problem of forming an electrical interface between circuit boards using conductive spacers.

Tsubota has been added to introduce elements of TFTs and a color filter. However, the Tsubota reference does not provide any further incentive to combine the Matsushita and Sundahl references. As noted

above in response to Section 13 of the Office Action, there is no motivation to modify Matsushita's invention to add (Sundahl's) conductive spacers. The addition of TFT and color filter elements does not change this lack of motivation to combine (the first prima facie requirement).

With respect to the second requirement of the obviousness analysis, even if Tsubota could be combined with Matsushita and Sundahl, there is no expectation from the combination that a flexible substrate can be bonded to a rigid substrate by placing spacers between the substrates, and filling the channels formed by the spacers with epoxy. The references do not describe a process that fills a channel, formed between spacers, with adhesive.

With respect to the third prima facie obviousness requirement, the references even when combined do not disclose all the elements of the claimed invention. The combination of Tsubota, Matsushita, and Sundahl does not teach that adhesive can be injected in spacer channels. Neither Tsubota nor Matsushita disclose spacers. Sundahl explicitly states that his conductive adhesive is formed in the proximity of the spacers, as opposed to in the channels between spacers. Since the combination of Tsubota, Matsushita, and Sundahl neither explicitly describes nor suggests a modification that makes claim 13 obvious, the Applicant requests that the rejection be removed.

In Section 15 of the Office Action, claim 19 has been rejected under 35 U.S.C. 103(a) as unpatentable over Matsushita in view of Sundahl, further in view of Ge. The Office Action acknowledges that Matsushita and Sundahl do not describe the metal film and plastic flexible substrates, but states that it would have been obvious to combine substrate materials disclosed by Ge, with Matsushita and Sundahl, to make claim 19 obvious. This rejection is traversed as follows.

As noted above, Matsushita addresses the problem of removing a thin film circuit layer/oxide layer stack from a single-crystal Si substrate, for attachment to a support substrate. Sundahl addresses the problem of forming an electrical interface between circuit boards using conductive spacers.

Ge has been added to introduce plastic and metal film flexible substrates. However, the Ge reference does not provide any further incentive to combine the Matsushita and Sundahl references. As noted above in response to Section 13 of the Office Action, there is no motivation to modify Matsushita's invention to add conductive spacers. The addition of particular types of flexible substrates does not change this lack of motivation to combine, which is the first prima facie requirement.

With respect to the second requirement of the obviousness analysis, even if Ge could be combined with Matsushita and Sundahl, there is no expectation from the combination that a flexible substrate can be bonded to a rigid substrate by placing spacers between the substrates, and filling the channels formed by the spacers with epoxy. The references do not describe a process that fills a channel, formed between spacers, with adhesive.

With respect to the third prima facie obviousness requirement, the references even when combined do not disclose all the elements of the claimed invention. The combination of Ge, Matsushita, and Sundahl does not teach that adhesive can be injected in spacer channels. Neither Ge nor Matsushita disclose spacers. Sundahl explicitly states that his conductive adhesive is formed in the proximity of the

spacers, as opposed to in the channels between spacers. Since the combination of Ge, Matsushita, and Sundahl neither explicitly describes nor suggests a modification that makes claim 19 obvious, the Applicant requests that the rejection be removed.

In Section 16 of the Office Action claims 4, 7, 14, and 17 have been rejected under 35 U.S.C. 103(a) as unpatentable with respect to Matsushita in view of Pai et al. ("Pai", US 6,612,888). The Office Action acknowledges that Matsushita does not specifically disclose the use of an N2 atmosphere, but that Pai does, and that it would have been obvious at the time of the invention to incorporate Pai's process of eliminating air bubbles, with Matsushita. This rejection is traversed as follows.

Generally, Matsushita describes an LCD invention that addresses the problem of removing a thin film circuit layer/oxide layer stack from a single-crystal Si substrate, for attachment to a support substrate (col. 1, ln. 53-61).

Generally, Pai is concerned with providing an improved commercial package that seals an electro-luminescence (EL) device from moisture and oxygen (col. 2, ln. 51-62). Pai describes a process of sealing an electro-luminescence device 502 between a glass substrate 500 and a glass plate 504. Initially, each EL device 502 is formed on glass substrate 500, partially surrounded by frame glue 508 and a spacer 510, and covered with glass plate 504 (col. 4, ln. 23-36). An opening 512 in the glue/spacer 508/510 permits a cavity 518 to be formed between glass layers 500/504. The glass substrate is cut, to separate the discrete luminescence devices from each other (col. 4, ln. 54-64). After pulling a vacuum, each package is inserted into a glue tub 522 and the cavity 518 is filled (col. 5, ln. 1-16).

With respect to the first prima facie requirement, there is no motivation to use Pai to modify the Matsushita reference in such a way as to make claimed invention obvious. Matsushita is attempting to solve the problem of detaching thin-film circuits from the substrates on which they fabricated, for attachment to a support substrate. Pai, on the other hand, is solving the problem of sealing an EL device. Since Matsushita does not address the issue of environmental sealing, there appears to be no motivation for a skilled artisan to look to Pai to make modifications to Matsushita's substrate detachment/reattachment process. Alternately stated, Matsushita expresses no motivation to incorporate environmental sealing processes. Said yet another way, it is irrelevant whether bubbles are formed in Matsushita's bonding process. Therefore, there is no motivation to add a process that eliminates the formation of air bubbles.

As noted in MPEP 2142,

obviousness is a procedural tool of examination which applies broadly to all arts. It allocates who has the burden of going forward with production of evidence in each step of the examination process. See In re Rinehart, 531 F.2d 1048, 189 USPQ 143 (CCPA 1976); In re Linter, 458 F.2d 1013, 173 USPQ 560 (CCPA 1972); In re Saunders, 444 F.2d 599, 170 USPQ 213 (CCPA 1971); In re Tiffin, 443 F.2d 394, 170 USPQ 88 (CCPA 1971), amended, 448 F.2d 791, 171 USPQ 294 (CCPA 1971); In re Warner, 379 F.2d 1011, 154 USPQ 173 (CCPA 1967), cert. denied, 389 U.S. 1057 (1968). The examiner bears the initial burden of factually supporting any prima facie conclusion of obviousness. If the examiner does not produce a prima facie case, the applicant is under no obligation to submit evidence of nonobviousness.

Here, the Examiner has repeated verbatim the exact same rejection as made in the Office Action of March 17, 2003. The Office Actions of 3/17/2004 and 6/29/2004 both state that "it would have been

obvious ... to incorporate Pai teachings since that would eliminate the formation of air bubbles which affect the performance of the device as taught by Pai." To support a case for obviousness, an analysis must be presented as to why an EL device, environmental sealing, or air bubble formation have any relevance to Matsushita's process.

Further, the Office Action has not demonstrated that the modification of the cited the prior art references point to the reasonable expectation of success in the present invention, which is the second requirement of the obviousness analysis. Even if Pai could be combined with Matsushita, there is no expectation from the combination that a rigid substrate can be attached to a flexible substrate using adhesive-filled spacer channels, or adhesive-filled trenches in the rigid substrate.

With respect to the third requirement to support a prima facie case of obviousness, the combination of Pai with Matsushita does not describe all the limitations of the invention of claims 1 or 11. With respect to claim 1, neither reference discloses a rigid substrate with trenches, or adhesive injected into the trenches. With respect to claim 11, neither reference describes a flexible substrate that is formed overlying a pattern of spacers. Both of Pai's substrates are rigid. Matsushita describes an overlying rigid support substrate 5 being attached to an adhesive-covered circuit layer 1. The combination of references neither suggests nor explicitly describes the inventions of claims 1 and 11. Claims 4 and 7, dependent from claim 1, and claims 14 and 17, dependent from claim 11, enjoy the same distinctions and the Applicant requests that the rejections be removed.

In Section 17 of the Office Action, claim 10 has been rejected under 35 U.S.C. 103(a) as unpatentable with respect to Matsushita in

view of Matsui et al. ("Matsui", US 6,191,007). The Office Action acknowledges that Matsushita does not describe the step of forming a support substrate with trenches, but that Matsui shows trenches 821, and that it would been obvious at the time of the invention to incorporate the teachings of Matsui into Matsushita, to increase uniformity. This rejection is traversed as follows.

Generally, Matsui is concerned with the fabrication of siliconon-insulator (SOI) MOSFETS (col. 5, ln. 52-60). More particularly, Matsui describes a process of forming a silicon thin-film on an SOI substrate. In one embodiment (Fig. 107) a substrate is formed including Si substrate 802, oxide layer 803, poly-Si layer 804/oxide layer 805 stack formed with a trench 808, and a monocrystalline Si layer 807 overlying oxide layer 805 (col. 97, ln. 27 through col. 98, ln. 39). The end result is improved film thickness uniformity. The trench is formed for the purpose of forming a buried electrode (col. 1, ln. 59 through col. 2, ln. 24).

There is no motivation to combine the Matsui and Matsushita references. They are working in two different fields of art; IC, as opposed to LCD processing. More particularly, they are solving different problems. As mentioned above, Matsushita is addressing a detachment/reattachment problem to a support substrate. Matsui is improving the uniformity of an attached monocrystalline Si layer. Alternately stated, there is no motivation to combine Matsui's buried electrode trench into Matsushita's bonding process.

Neither of the references addresses the problem of temporarily attaching a flexible substrate to a support substrate in a manner that makes it easily detachable in subsequent processes.

Matsushita describes a permanent attachment to a support substrate, and Matsui describes the formation of a uniform Si layer.

Again, this rejection is a repeat of the rejection made in the Office Action of March 17, 2004. The support for the rejection merely states that "it would have been obvious ... to incorporate Matsui's teaching since that would increase uniformity as taught by Matsui." However, the Office Action still fails to support a prima facie case for obviousness. For example, with respect to motivation to combine, the Office Action must present reasons why the issue of uniformity has any relevance to Matsushita. In response to Sections 5 and 6 of the Office Action, support for a prima facie case analysis does not have anything to do with advantages cited by the Applicant. Alternately stated, there are no advantages associated with the combination of prior art references, if the references cannot be combined.

With respect to the second prima facie obviousness requirement, even if the references could be combined, there is no suggestion in the combination of an invention that attaches a flexible substrate to a rigid substrate through the use of adhesive-filled spacer channels.

With respect to the third prima facie requirement, the combination of Matsushita and Matsui does not describe all the limitations of claim 1. Neither Matsui not Matsushita disclose the limitations of forming a rigid substrate with trenches, filling the trench with adhesive, and attaching the substrates. Claim 10, dependent from claim 1, enjoys the same distinctions from the cited prior art. Since the combination of Matsushita and Matsui neither suggests nor explicitly

submitted,

describes the claimed invention, the Applicant respectfully requests that the rejection be removed.

It is believed that the application is in condition for allowance and reconsideration is earnestly solicited.

Customer Number: 27518

ATTACHMENT A

ApplicationOfCasey

Application of Casey 370 F.2d 576 Cust. & Pat.App.,1967. Jan. 12, 1967. (Approx. 3 pages)

152 U.S.P.Q. 235

United States Court of Customs and Patent Appeals. In the Matter of the Application of James H. CASEY. Patent Appeal No. 7718. Jan. 12, 1967.

Proceeding on patent application. The Patent Office, Serial No. 10,239, affirmed rejection of claims, and applicant appealed. The Court of Customs and Patent Appeals, Almond, J., held that claims 1 through 6 of application for patent on brush tape dispenser were unpatentable for lack of unobvious difference between apparatus and existing machine, despite claimed difference in use of machines.

**576 **938 Charles H. Lauder, St. Paul, Minn., for appellant. Joseph Schimmel, Washington, D.C. (S. William Cochran, Washington, D.C., of counsel), for Commissioner of Patent.

Before WORLEY, Chief Judge, RICH, SMITH, and ALMOND, Judges, and Judge WILLIAM H. KIRKPATRICK. $[FN^*]$

FN* Senior District Judge, Eastern District of Pennsylvania, sitting by designation.

**577 ALMOND, Judge. This is an appeal from the decision of the Patent Office Board of Appeals affirming the rejection of claims 1 though 6 of appellant's application [FN1] entitled 'Brush Fed Tape Dispenser.' Claims 7 and 8 were allowed.

FN1. Serial No. 10,239, filed February 23, 1960.

The claimed invention relates to a machine for dispensing adhesive tape. Claim 1 is illustrative:

1. A taping machine comprising a supporting structure, a brush attached to said supporting structure, said brush being formed with projecting bristles which terminate in free ends to collectively define a surface to which adhesive tape will detachably adhere, and means for providing relative motion between said brush and said supporting structure while adhesive tape is adhered to said surface.

*939 Figures 2 and 3 of appellant's drawings are depicted below:

Image 1 (5.5" x 5.5") Available for Offline Print

The machine comprises a mounting plate 20, a hub 35 rotatably attached thereto carrying a supply roll 34 of tape T, a roller guide 42 rotatably attached **578 to the mounting plate 20, a brush 24 rotatably attached to said mounting plate for rotation counterclockwise in response to propulsion from motor 21, and a knife 50 mounted on a pivoted arm 52 operated by solenoid 54. Tape T is threaded around roller guide 42 and the adhesive side of the tape is then adhered to the surface page 1

ApplicationOfCasey formed by the free ends of bristles 25 of brush 24. Operation of motor 21 will cause tape T to be pulled from supply roll 34 and moved through the machine by reason of its adhesion to brush 24. Operation of solenoid 54 brings knife 50 in contact with tape T to sever same while it is adhered to the ends of the bristles of the brush. The references are:

Kienzle 2,142,728 January 3, 1939 Hackett 2,763,481 September 18, 1956 Engberg Re 22,945 December 2, 1947

*940 Kienzle shows a device for perforating various types of sheet materials by use of needle-like pins. Kienzle states: *940 Kienzle shows a device for perforating various types of sheet materials by use of needle-like pins. Kienzle states:

* * * these pins can form a single group or a plurality of groups arranged side by side or behind one another, or also in staggered positions and they can be operated so as to move simultaneously, or they can be timed differently. For supporting the sheet to be perforated I use a carrier which is * * * an open structure * * * to let the pins enter freely when they penetrate the sheet farther than its thickness. * * (The) carrier * * * may be a drum the surface of which consists of felt, or of a brush * * * which likewise can support the sheet against the action of the pins without offering the said pins any resistance against penetrating. Kienzle's sheet is supported by a rotary brush with open end bristles. Hackett shows a tape dispensing device having a dispensing drum rotatably mounted on supporting means. The drum supports fins to which adhesive tape is adhered. Tape is advanced from a supply through rotational movement of the drum by pneumatic means. The tape is severed by means of a blade. Engberg discloses apparatus for dispensing adhesive tape by adhering the tape to spaced carriers in the form of transverse blades carried in orbit by an endless belt around two rotary toothed drums. A flat spring guides and presses the adhesive side of the tape against the blades. The belt and adhered tape are advanced by operation of a handle. The tape is severed between two tape feeding blades by a cutting blade. In rejecting claim 1 the examiner applied 35 U.S.C. § 103 and held the claim unpatentable over Kienzle. In analyzing claim 1 the examiner pointed out the structural limitations therein and found them all met by Kienzle except the support for the brush which he considered obvious. He stated that:
The remainder of the claim is made up of the preamble and functional language which incorporates therein a specific workpiece (adhesive tape) which is considered to be patentably immaterial. incorporates therein a specific workpiece (adhesive tape) which is considered to be patentably immaterial.

Again applying 35 U.S.C. § 103, the examiner rejected claims 2 to 6 as unpatentable over Kienzle in view of Hackett. He noted that claims 2-4 differ from claim 1 only in the addition of a severing means and that claims 5 and 6 further add a means to support the tape supply and a guiding means to aid delivery to the feed roll. The examiner pointed to the fact that Kienzle discloses a perforating means which punctures the sheet material supported on the brush bristles, which material passes between the perforating means and the rotatable brush. He also noted that Hackett in his disclosure of a tape dispenser teaches the use of a transverse severing means and held that it would be obvious to one **579 skilled in the art to substitute the Hackett severing *941 means for the perforator of Kienzle. He further noted that Hackett teaches a material supply roll and presumably includes in his dispenser guiding means as shown in Engberg inasmuch as Hackett mentions the Engberg patent in his disclosure.

In its affirmance of the rejection of claims 1 to 6 the hand. In its affirmance of the rejection of claims 1 to 6 the board, noting appellant's argument that the claims require that the reference used be directed to a 'taping machine' and 'tape dispensing machine' as recited in the preambles of said claims, Stated:
Such designation in the preamble is not definitive of specific structure or character of mechanism. The claim must stand or fall upon the elements recited therein. While claim 1 continues to note that adhesive tape will adhere to a brush, the structure so indicated differs in no way from that present in Kienzle where a driven brush is shown as supporting a band of material. The structure thus provided has the capabilities recited which is all that is required to satisfy the terms of the claims. * * *
We agree with the solicitor that the real issue of substance in the We agree with the solicitor that the real issue of substance in this case is resolvable on the basis of the merits of the rejection of claim 1 all of the